

Patent Application of Robert D. Gourlay
for "Inhalation Detector" continued
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3. The apparatus of claim 1 wherein said diaphragm is secured in place by a means selected from the group consisting of adhesive bonding and welding and clamping.
4. The apparatus of claim 1 wherein said insulator is an insulating coating disposed upon and bonded to said electrodes.
5. The apparatus of claim 1 wherein said insulator is integral with said diaphragm.
6. The apparatus of claim 1 wherein said diaphragm is comprised of a plastic film with a metal coating on one face.
7. The apparatus of claim 1 wherein the active electronic devices implementing said conversion and amplifying means, said feedback means, and said comparator means are selected from the group consisting of transistors and digital microcircuits and linear microcircuits and mixed function microcircuits.